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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/675,782
Filing Date	30 September 2003
First Named Inventor	Freitag et al.
Art Unit	2653
Examiner Name	Heinz, Allen J.
Attorney Docket Number	HSJ9-2003-0071U82

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AH		US- 2002/0181173 A1	12/05/2002	Nagai	
		US- 2002/0085322 A1	07/04/2002	Pinarbasi	
		US- 5,701,223 A1	12/23/1997	Fontana et al.	
		US- 6,535,362 B2	03/18/2003	Kawawake et al.	
		US- 2003/0035255 A1	02/20/2003	Hasegawa et al.	
		US- 6,495,275 B2	12/17/2002	Kamiguchi et al.	
		US- 6,353,519 B2	02/05/2002	Pinarbasi	
		US- 6,348,274 B1	02/19/2002	Kamiguchi et al.	
		US- 2001/0040781	11/15/2001	Tanaka et al.	
		US- 6,282,068 B1	08/28/2001	Pinarbasi	
		US- 6,134,090	10/17/2000	Mao et al.	
		US- 5,880,913	03/09/1999	Gill	
		US- 5,432,734	07/11/1995	Kawano et al.	
		US- 6,356,419 B1	03/12/2002	Gill	
		US- 6,226,159 B1	05/01/2001	Pinarbasi	
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
AH		WO 02/077657	10/03/2002	Hong et al.		

Examiner
Signature

A. Heinz

Date

Considered

6/28/06

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		Examiner Name	Heinz, Allen J.
Sheet 2	of 2	Attorney Docket Number HBJ9-2003-0071052	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AA		EGELHOFF Jr. et al., Oxygen as a Surfactant in the Growth of Gant Magnetoresistance Spin Valves, Journal of Applied Physics, 15 December 1997, 6142-6151, 82-12	
		SAKAKIMA et al., Enhanced GMR in PtMn-Based Spin Valves with Specular Reflective Thin Oxide Layers, IEEE Transactions on Magnetics, September 2000, 2554-2556, 36-5, Kyoto, Japan	
		WANG et al., Specularity in GMR Spin Valves and In Situ Electrical and Mangetotransport Measurements, IEEE Transactions on Magnetics, September 2000, 2841-2846, 36-5, Kyoto, Japan	

Examiner Signature	<i>A. Heinz</i>	Date Considered	6/28/06
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